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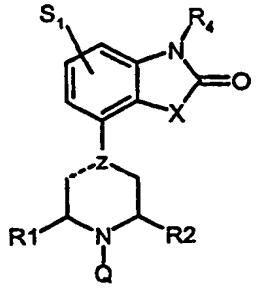
(54) Title: NEW PIPERAZINE AND PIPERIDINE COMPOUNDS

(57) Abstract

The invention relates to a group of novel piperazine and piperidine derivatives of formula (I), wherein: S_1 is hydrogen, halogen, alkyl (1–3C), CN, CF_3, OCF_3, SCF_3, alkoxy (1–3C), amino or mono– or di-alkyl (1–3C) substituted amino, or hydroxy; X represents NR_3, S, CH_2, O, SO or SO_2, wherein R_3 is H or alkyl (1–3C);.....Z represents =C or –N; – R_1 and R_2 independently represent H or alkyl (1–3C), or R_1 and R_2 together can form a bridge of 2 or 3 C–atoms; R_4 is hydrogen or alkyl (1–3C); Q is methyl, ethyl, ethyl substituted with one or more fluorine atoms, cyclopropyl – methyl, optionally substituted with one or more fluorine atoms, and salts and prodrugs thereof. It has been found that these compounds have both partial dopamine D_2–receptor agonism and partial serotonin 5–HT_{1A}–receptor agonism mediated activities.



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